

## ABSTRACT OF THE DISCLOSURE

A dynamic control diffraction grating for dynamically  
varying a light amount ratio of a zero-order diffracted beam  
5 of light to high-order diffracted beams of light. The dynamic  
control diffraction grating comprises a voltage-dependent  
phase varying material for transmitting a beam of light  
therethrough and varying the phase of the transmitted light  
beam in response to external voltages applied thereto, the  
10 voltages having different levels and being applied to the  
phase varying material at regular intervals in a comb form.

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